

**Version:** Oct2007  
**Contract/Lab:** All Laboratories  
**Species:** MICE  
**Strain:** B6C3F1  
**Length of Study:** CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route:** GAVAGE  
**Vehicle:** METHYLCELLULOSE

**Page: 41**  
**Report Date:**10/04/2007

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
Male							
Southern Research Institute	059100508	07/10/00	729	50 (1)	35(693)	53.6	Methylene blue trihydrate
Female							
Southern Research Institute	059100508	07/10/00	732	50 (5)	29(695)	63.5	Methylene blue trihydrate

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male	Female
#All Organs: Benign Tumors	37/50 (74%)	25/50 (50%)
#All Organs: Malignant Tumors	26/50 (52%)	26/50 (52%)
#All Organs: Malignant and Benign Tumors	46/50 (92%)	39/50 (78%)
#All Organs: Hemangioma	0/50 (0%)	1/50 (2%)
#All Organs: Hemangiosarcoma	6/50 (12%)	3/50 (6%)
#All Organs: Hemangiosarcoma or Hemangioma	6/50 (12%)	4/50 (8%)
#All Organs: Histiocytic Sarcoma	0/50 (0%)	2/50 (4%)
#All Organs: Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type	2/50 (4%)	6/50 (12%)

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#: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route:** GAVAGE  
**Vehicle:** METHYLCELLULOSE

**Page: 43**  
**Report Date:**10/04/2007

	Male		Female	
#All Organs:				
Mesothelioma: Benign, Malignant, NOS	0/50	(0%)	0/50	(0%)
.....				
#All Organs:				
Mesothelioma: Malignant	0/50	(0%)	0/50	(0%)
.....				
#All Organs:				
Osteoma	0/50	(0%)	0/50	(0%)
.....				
#All Organs:				
Osteosarcoma	0/50	(0%)	1/50	(2%)
.....				
#All Organs:				
Osteosarcoma or Osteoma	0/50	(0%)	1/50	(2%)
.....				
#Adrenal Cortex:				
Adenoma	5/48	(10%)	0/50	(0%)
.....				
#Adrenal Cortex:				
Sarcoma	0/48	(0%)	0/50	(0%)
.....				
#Adrenal Medulla:				
Pheochromocytoma Benign	0/48	(0%)	1/50	(2%)
.....				

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Adrenal Medulla: Pheochromocytoma Complex	0/48	(0%)	0/50	(0%)
*Adrenal Medulla: Pheochromocytoma Malignant	0/48	(0%)	0/50	(0%)
*Adrenal Medulla: Pheochromocytoma: Benign, Complex, Malignant, NOS	0/48	(0%)	1/50	(2%)
*Bone Marrow: Hemangiosarcoma	1/50	(2%)	0/50	(0%)
*Bone Marrow: Mast Cell Tumor Malignant	0/50	(0%)	0/50	(0%)
#Bone: Osteoma	0/50	(0%)	0/50	(0%)
#Bone: Osteosarcoma	0/50	(0%)	1/50	(2%)
#Bone: Osteosarcoma or Osteoma	0/50	(0%)	1/50	(2%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Bone:				
Sarcoma	0/50	(0%)	0/50	(0%)
.....				
*Brain:				
Schwannoma Malignant	0/50	(0%)	0/50	(0%)
.....				
*Clitoral/Preputial Gland:				
Adenoma	0/50	(0%)	0/48	(0%)
.....				
*Clitoral/Preputial Gland:				
Carcinoma	0/50	(0%)	0/48	(0%)
.....				
*Clitoral/Preputial Gland:				
Carcinoma or Adenoma	0/50	(0%)	0/48	(0%)
.....				
*Clitoral/Preputial Gland:				
Hemangiosarcoma	0/50	(0%)	0/48	(0%)
.....				
*Clitoral/Preputial Gland:				
Squamous Cell Carcinoma	0/50	(0%)	0/48	(0%)
.....				
*Epididymis:				
Sarcoma	0/50	(0%)		
.....				

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Eye: Sarcoma	0/50	(0%)	0/50	(0%)
*Gallbladder: Adenoma	0/40	(0%)	0/42	(0%)
#Harderian Gland: Adenoma	8/50	(16%)	4/50	(8%)
#Harderian Gland: Carcinoma	3/50	(6%)	0/50	(0%)
#Harderian Gland: Carcinoma or Adenoma	11/50	(22%)	4/50	(8%)
*Heart: Hemangioma	0/50	(0%)	0/50	(0%)
*Heart: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
*Heart: Sarcoma	0/50	(0%)	0/50	(0%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Intestine Large: Cecum: Carcinoma	1/50	(2%)	0/50	(0%)
.....				
#Intestine Large: Cecum: Carcinoma or Adenoma	1/50	(2%)	0/50	(0%)
.....				
#Intestine Large: Cecum: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Large: Cecum: Polyp Adenomatous	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Duodenum: Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Duodenum: Carcinoma	0/50	(0%)	1/50	(2%)
.....				
#Intestine Small: Duodenum: Polyp Adenomatous	0/50	(0%)	0/50	(0%)
.....				
#Intestine Small: Ileum: Carcinoma	0/50	(0%)	0/50	(0%)
.....				

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Intestine Small: Jejunum: Adenoma	1/50	(2%)	0/50	(0%)
#Intestine Small: Jejunum: Carcinoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Jejunum: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Jejunum: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Jejunum: Polyp Adenomatous	0/50	(0%)	0/50	(0%)
#Intestine Small: Site Unspecified: Adenoma	1/50	(2%)	0/50	(0%)
#Intestine Small: Site Unspecified: Carcinoma	0/50	(0%)	1/50	(2%)
#Intestine Small: Site Unspecified: Carcinoma or Adenoma	1/50	(2%)	1/50	(2%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Intestine Small: Site Unspecified: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Site Unspecified: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
#Intestine Small: Site Unspecified: Polyp Adenomatous	0/50	(0%)	0/50	(0%)
*Islets, Pancreatic: Adenoma	0/50	(0%)	1/46	(2%)
*Islets, Pancreatic: Carcinoma	0/50	(0%)	0/46	(0%)
*Islets, Pancreatic: Carcinoma or Adenoma	0/50	(0%)	1/46	(2%)
*Kidney: Renal Tubule: Adenoma	0/49	(0%)	0/48	(0%)
*Kidney: Renal Tubule: Carcinoma	1/49	(2%)	0/48	(0%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Kidney: Renal Tubule: Carcinoma or Adenoma	1/49	(2%)	0/48	(0%)
.....				
*Liver: Cholangiocarcinoma	0/50	(0%)	0/50	(0%)
.....				
*Liver: Fibrous Histiocytoma	0/50	(0%)	0/50	(0%)
.....				
*Liver: Hemangioma	0/50	(0%)	0/50	(0%)
.....				
*Liver: Hemangiosarcoma	2/50	(4%)	0/50	(0%)
.....				
*Liver: Hepatoblastoma	2/50	(4%)	0/50	(0%)
.....				
*Liver: Hepatocellular Adenoma	28/50	(56%)	15/50	(30%)
.....				
*Liver: Hepatocellular Carcinoma	13/50	(26%)	5/50	(10%)
.....				

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 51  
Report Date:10/04/2007

	Male	Female
*Liver: Hepatocellular Carcinoma or Hepatoblastoma	15/50 (30%)	5/50 (10%)
*Liver: Hepatocellular Carcinoma or Hepatocellular Adenoma	37/50 (74%)	19/50 (38%)
*Liver: Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma	38/50 (76%)	19/50 (38%)
*Liver: Hepatocholangiocarcinoma	0/50 (0%)	0/50 (0%)
*Liver: Ito Cell Tumor Malignant	0/50 (0%)	0/50 (0%)
*Liver: Sarcoma	0/50 (0%)	0/50 (0%)
*Lung: Adenoma	0/50 (0%)	0/50 (0%)
*Lung: Alveolar/Bronchiolar Adenoma	11/50 (22%)	1/50 (2%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
*Lung: Alveolar/Bronchiolar Carcinoma	1/50	(2%)	5/50	(10%)
.....				
*Lung: Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma	12/50	(24%)	6/50	(12%)
.....				
*Lung: Fibrosarcoma	0/50	(0%)	0/50	(0%)
.....				
*Lung: Fibrous Histiocytoma	0/50	(0%)	0/50	(0%)
.....				
*Lung: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Lymph Node: Fibrous Histiocytoma	0/50	(0%)	0/50	(0%)
.....				
#Lymph Node: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
.....				
#Lymph Node: Sarcoma	0/50	(0%)	0/50	(0%)
.....				

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Lymph Node, Bronchial: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Lymph Node, Mandibular: Fibrous Histiocytoma	0/50	(0%)	0/50	(0%)
#Lymph Node, Mediastinal: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Lymph Node, Mesenteric: Fibrous Histiocytoma	0/50	(0%)	0/50	(0%)
#Lymph Node, Mesenteric: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Mammary Gland: Carcinoma	0/50	(0%)	2/50	(4%)
#Mammary Gland: Carcinoma or Adenoma	0/50	(0%)	2/50	(4%)
#Mammary Gland: Fibroma, Fibroadenoma, Carcinoma, or Adenoma	0/50	(0%)	2/50	(4%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Mesentery: Fibrosarcoma	0/50	(0%)	0/50	(0%)
#Mesentery: Fibrous Histiocytoma	0/50	(0%)	0/50	(0%)
#Mesentery: Hemangioma	0/50	(0%)	0/50	(0%)
#Mesentery: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Mesentery: Leiomyosarcoma	0/50	(0%)	0/50	(0%)
#Mesentery: Sarcoma	0/50	(0%)	0/50	(0%)
*Nose: Carcinoma	0/50	(0%)	0/50	(0%)
*Nose: Hemangioma	0/50	(0%)	0/50	(0%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 55  
Report Date:10/04/2007

	Male		Female	
*Nose:				
Mast Cell Tumor Malignant	0/50	(0%)	0/50	(0%)
*Nose:				
Sarcoma	0/50	(0%)	0/50	(0%)
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):				
Papilloma Squamous or Papilloma	0/50	(0%)	0/50	(0%)
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):				
Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):				
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma	0/50	(0%)	0/50	(0%)
#Oral Mucosa:				
Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
*Ovary:				
Choriocarcinoma			0/47	(0%)
*Ovary:				
Cystadenoma			2/47	(4%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male	Female
*Ovary: Fibrous Histiocytoma	0/47	(0%)
*Ovary: Granulosa Cell Tumor Benign	0/47	(0%)
*Ovary: Granulosa Cell Tumor Malignant	0/47	(0%)
*Ovary: Granulosa Cell Tumor: Benign, Malignant, NOS	0/47	(0%)
*Ovary: Hemangioma	0/47	(0%)
*Ovary: Hemangiosarcoma	1/47	(2%)
*Ovary: Leiomyosarcoma	0/47	(0%)
*Ovary: Luteoma	0/47	(0%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Male			Female		
*Ovary:					
Teratoma Benign			0/47	(0%)	
.....					
*Ovary:					
Tubulostromal Adenoma			0/47	(0%)	
.....					
*Pancreas:					
Carcinoma			0/46	(0%)	
0/48	(0%)				
.....					
*Pancreas:					
Carcinoma or Adenoma			0/46	(0%)	
0/48	(0%)				
.....					
*Pituitary Gland: Pars Distalis or Unspecified Site:					
Adenoma			1/46	(2%)	
0/50	(0%)				
.....					
*Pituitary Gland: Pars Distalis or Unspecified Site:					
Carcinoma			0/46	(0%)	
0/50	(0%)				
.....					
*Pituitary Gland: Pars Distalis or Unspecified Site:					
Carcinoma or Adenoma			1/46	(2%)	
0/50	(0%)				
.....					
*Pituitary Gland: Pars Intermedia:					
Adenoma			1/46	(2%)	
0/50	(0%)				
.....					

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 58  
Report Date:10/04/2007

	Male		Female	
*Pituitary Gland: Pars Intermedia: Carcinoma or Adenoma	0/50	(0%)	1/46	(2%)
*Prostate: Adenoma	0/49	(0%)		
*Prostate: Carcinoma or Adenoma	0/49	(0%)		
*Salivary Glands: Carcinoma	0/50	(0%)	0/50	(0%)
*Salivary Glands: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
#Seminal Vesicle: Adenoma	0/50	(0%)		
#Skeletal Muscle: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Skeletal Muscle: Rhabdomyosarcoma	0/50	(0%)	0/50	(0%)

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Version: Oct2007  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: GAVAGE**  
**Vehicle: METHYLCELLULOSE**

**Page: 59**  
**Report Date: 10/04/2007**

	Male		Female	
#Skeletal Muscle:				
Rhabdomyosarcoma or Rhabdomyoma	0/50	(0%)	0/50	(0%)
.....				
#Skeletal Muscle:				
Sarcoma	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Adenoma or Basosquamous Tumor Benign	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma	0/50	(0%)	0/50	(0%)
.....				
#Skin:				
Basal Cell Carcinoma	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma	0/50	(0%)	1/50	(2%)
.....				
#Skin:				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma	0/50	(0%)	1/50	(2%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 60  
Report Date:10/04/2007

	Male		Female	
#Skin: Basosquamous Tumor Benign	0/50	(0%)	0/50	(0%)
#Skin: Fibroma	0/50	(0%)	0/50	(0%)
#Skin: Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma	1/50	(2%)	3/50	(6%)
#Skin: Fibrosarcoma	0/50	(0%)	3/50	(6%)
#Skin: Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma	1/50	(2%)	3/50	(6%)
#Skin: Fibrous Histiocytoma	0/50	(0%)	0/50	(0%)
#Skin: Hemangioma	0/50	(0%)	1/50	(2%)
#Skin: Hemangiosarcoma	1/50	(2%)	1/50	(2%)

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Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

	Male		Female	
#Skin: Liposarcoma	0/50	(0%)	0/50	(0%)
#Skin: Mast Cell Tumor Malignant	0/50	(0%)	0/50	(0%)
#Skin: Melanoma Malignant	0/50	(0%)	0/50	(0%)
#Skin: Neural Crest Tumor	0/50	(0%)	0/50	(0%)
#Skin: Neurofibrosarcoma or Schwannoma (malignant or NOS)	0/50	(0%)	0/50	(0%)
#Skin: Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)	0/50	(0%)	0/50	(0%)
#Skin: Osteosarcoma	0/50	(0%)	0/50	(0%)
#Skin: Sarcoma	1/50	(2%)	0/50	(0%)

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Version: Oct2007  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: GAVAGE**  
**Vehicle: METHYLCELLULOSE**

**Page: 62**  
**Report Date: 10/04/2007**

	Male		Female	
#Skin:				
Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Skin:				
Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
#Skin:				
Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma	0/50	(0%)	1/50	(2%)
#Skin:				
Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
#Skin:				
Squamous Cell Papilloma or Papilloma	0/50	(0%)	0/50	(0%)
#Skin:				
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma	0/50	(0%)	0/50	(0%)
#Skin:				
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma	0/50	(0%)	0/50	(0%)
#Skin: Sebaceous Gland:				
Adenoma	0/50	(0%)	0/50	(0%)

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

Version: Oct2007  
Contract/Lab: All Laboratories  
Species: MICE  
Strain: B6C3F1  
Length of Study: CHRONIC

**Toxicology Data Management System**  
Tumor Incidence for Selected Control Animal Groups  
**Route: GAVAGE**  
**Vehicle: METHYLCELLULOSE**

**Page: 63**  
**Report Date:10/04/2007**

	Male		Female	
#Skin: Sebaceous Gland: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Spinal Cord: Meningioma Malignant	0/50	(0%)	0/50	(0%)
.....				
*Spleen: Fibrous Histiocytoma	0/49	(0%)	0/47	(0%)
.....				
*Spleen: Hemangioma	0/49	(0%)	0/47	(0%)
.....				
*Spleen: Hemangiosarcoma	2/49	(4%)	0/47	(0%)
.....				
#Stomach, Forestomach: Mast Cell Tumor Malignant	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Forestomach: Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Forestomach: Squamous Cell Carcinoma or Papilloma Squamous	0/50	(0%)	0/50	(0%)
.....				

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	Male		Female	
#Stomach, Forestomach: Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Glandular: Adenoma	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Glandular: Carcinoma	0/50	(0%)	0/50	(0%)
.....				
#Stomach, Glandular: Carcinoma or Adenoma	0/50	(0%)	0/50	(0%)
.....				
*Testes: Adenoma	0/50	(0%)		
.....				
*Testes: Hemangiosarcoma	0/50	(0%)		
.....				
*Testes: Seratoli Tumor: Benign, Malignant, NOS	0/50	(0%)		
.....				
*Testes: Sertoli Cell Tumor Malignant	0/50	(0%)		
.....				

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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 65  
Report Date:10/04/2007

	Male		Female	
*Thymus: Thymoma Malignant	0/38	(0%)	0/43	(0%)
*Thymus: Thymoma: Benign, Malignant, NOS	0/38	(0%)	0/43	(0%)
*Thyroid Gland: Adenoma	0/50	(0%)	0/46	(0%)
*Thyroid Gland: C-Cell: Carcinoma	0/50	(0%)	0/46	(0%)
*Thyroid Gland: C-Cell: Carcinoma or Adenoma	0/50	(0%)	0/46	(0%)
*Thyroid Gland: Follicular Cell: Adenoma	3/50	(6%)	1/46	(2%)
*Thyroid Gland: Follicular Cell: Carcinoma	0/50	(0%)	0/46	(0%)
*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma	3/50	(6%)	1/46	(2%)

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Toxicology Data Management System  
Tumor Incidence for Selected Control Animal Groups  
Route: GAVAGE  
Vehicle: METHYLCELLULOSE

Page: 66  
Report Date:10/04/2007

	Male		Female	
#Tissue NOS: Carcinoma	0/50	(0%)	0/50	(0%)
#Tissue NOS: Hemangiosarcoma	0/50	(0%)	0/50	(0%)
#Tissue NOS: Schwannoma Malignant	0/50	(0%)	0/50	(0%)
#Tongue: Squamous Cell Carcinoma	0/50	(0%)	0/50	(0%)
#Tongue: Squamous Cell Carcinoma or Papilloma Squamous	0/50	(0%)	0/50	(0%)
#Tongue: Squamous Cell Papilloma	0/50	(0%)	0/50	(0%)
#Tooth: Odontoma	0/50	(0%)	0/50	(0%)
*Urinary Bladder: Hemangioma	0/48	(0%)	0/45	(0%)

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Toxicology Data Management System  
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	Male		Female
*Urinary Bladder: Hemangiosarcoma	1/48 (2%)		0/45 (0%)
#Uterus: Adenoma			1/50 (2%)
#Uterus: Carcinoma			0/50 (0%)
#Uterus: Deciduoma Benign			0/50 (0%)
#Uterus: Hemangioma			0/50 (0%)
#Uterus: Hemangiosarcoma			1/50 (2%)
#Uterus: Leiomyoma			1/50 (2%)
#Uterus: Leiomyosarcoma			0/50 (0%)

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	Male		Female
#Uterus: Polyp Stromal		0/50 (0%)	
#Uterus: Sarcoma Stromal		0/50 (0%)	
#Uterus: Sarcoma Stromal or Polyp Stromal		0/50 (0%)	
#Uterus: Schwannoma Malignant		0/50 (0%)	
#Vagina: Squamous Cell Carcinoma		1/50 (2%)	
#Vagina: Squamous Cell Papilloma		0/50 (0%)	
#Zymbal's Gland: Carcinoma	0/50 (0%)	0/50 (0%)	
#Zymbal's Gland: Carcinoma or Adenoma	0/50 (0%)	0/50 (0%)	

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#: Denominator is number of animals necropsied